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**From:** Deschambault, Lynda  
**Sent:** Wed 11/23/2016 12:17:35 AM  
**Subject:** Presentation Materials for December 13 Technical Meeting

Dear Mr. Brown.

We look forward to our December 13<sup>th</sup> technical meeting at the AMEC office!

10940 White Rock Road, Suite 190,

Rancho Cordova, CA 95670

Our meetings are always productive and informative. Please provide/share the webinar login information.

Also as promised, we have put together a list of basic graphics that ARC should provide in a Powerpoint to EPA in advance of the meeting. During past technical meetings, presentation graphics are often inconsistent or poorly presented. EPA provides this higher level of detail and looks forward to a productive meeting with graphics that will assist in understanding the stream sediment and floodplain soil ; and provide for robust conversation.

- 1) Overview maps that show sample locations (one or two maps to scale)
- 2) Stream profiles of metal concentration versus distance downstream from a selected point ( for example: Station 1, Station 15, CUD) The X axis should be in linear length units and should be the same for all comparable graphs. The Y axis should be the same for comparable graphs, and could be either linear or log (please pick ONE of these and use consistently throughout the graphics for each comparable set of images) depending on the concentration range.
  - a. Comparable graphs/images are those showing the same reach of the stream system, and/or same chemical.

- b. Start with the whole system (ie Leviathan Creek to the bottom of Bryant Creek)
  - c. Each stream profile should include the stream sediment, category I, category 2, and category 3 floodplain soil data; each as a separate profile line with different colors AND symbols that are easily distinguishable at the presentation scale and format.
  - d. Symbols must be consistent (ie do NOT use a blue square for stream sediment on one figure and category 2 floodplain soil on another figure...)
  - e. After showing the entire stream profile (ie from the chosen starting point in Leviathan Creek to the bottom of Bryant Creek), please provide enlarged profiles of any areas of interest.
- 3) Transects of metal concentrations for stream sediment AND category I, category 2, and category 3 floodplain soil data. Select the transects based on areas of interest (i.e. from the stream profiles). These should follow the same rules as the stream profiles (ie consistent scales, symbols, etc.) please Provide index maps showing transect locations.
- a. Each transect should include a diagram of the location of the differing floodplain soil and stream sediments with respect to one another.
- 4) If there are widely used sediment screening benchmarks (note that these should also apply to what ARC calls 'floodplain soil') these should be shown on the profiles for comparison and to assist in visually showing the significance of the analytical results.
- 5) At a minimum please provide profiles for arsenic, copper, nickel, and thallium.

Best Regards,

Lynda Deschambault

Environmental Scientist

USEPA Region 09

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Please be advised I may have limited access to email , therefore please be patient with any communication delays.

**From:** Deschambault, Lynda  
**Sent:** Friday, October 28, 2016 8:15 AM  
**To:** Brown, Anthony R (RM) <[anthony.brown@bp.com](mailto:anthony.brown@bp.com)>  
**Cc:** Gary Riley <[Riley.Gary@epa.gov](mailto:Riley.Gary@epa.gov)>; Greg Reller <[gr@burlesonconsulting.com](mailto:gr@burlesonconsulting.com)>; Cory Koger <[Cory.S.Koger@usace.army.mil](mailto:Cory.S.Koger@usace.army.mil)>; Patty Cubanski <[pc@burlesonconsulting.com](mailto:pc@burlesonconsulting.com)>; 'Chang-Minami, Kay SPK' <[Kay.Chang-Minami@usace.army.mil](mailto:Kay.Chang-Minami@usace.army.mil)>; Serda, Sophia <[Serda.Sophia@epa.gov](mailto:Serda.Sophia@epa.gov)>; Black, Ned <[Black.Ned@epa.gov](mailto:Black.Ned@epa.gov)>; Wirschafter, Joshua <[Wirschafter.Joshua@epa.gov](mailto:Wirschafter.Joshua@epa.gov)>; Hillenbrand, John <[Hillenbrand.John@epa.gov](mailto:Hillenbrand.John@epa.gov)>; Doug Carey <[douglas.carey@waterboards.ca.gov](mailto:douglas.carey@waterboards.ca.gov)>; 'Chris.Stetler@waterboards.ca.gov' <[Chris.Stetler@waterboards.ca.gov](mailto:Chris.Stetler@waterboards.ca.gov)>; 'Lombardi, Marc' <[Marc.Lombardi@amecfw.com](mailto:Marc.Lombardi@amecfw.com)>  
**Subject:** December 13 Technical Meeting

Dear Mr. Brown,

EPA looks forward to our next technical meeting. Here is a proposed agenda and logistics. EPA anticipates that ARC will provide a Technical Data Summary Report (TDSR) on Sediment and Floodplain soils in advance of the meeting. Preferably 72 hours in advance.

- **DURATION:** Let's plan for the full day: 10 am to 4pm. Confirm location is it Waterboard or AMEC office?
- **WEBINAR:** Please set up a webinar for those who can't attend the whole meeting
- **AGENDA:** Here is a draft. EPA looks forward to a review and discussion of the following items:

## DRAFT AGENDA

Introductions

Safety Moment

Stream Sediment

Available data (QCSR and DQA)

Stream Profiles

Screening benchmark comparisons (risk assessment calculations)

Reference Comparison

Elevated risks attributable to the site;

Implications for the FS

Floodplain Soil

Available data (QCSR and DQA )

Stream Profiles

Screening benchmark comparisons (risk assessment calculations)

Reference Comparison

Elevated risks attributable to the site;

Implications for the FS

Field work remaining in 2017; this and other media

Wrap up/ Next steps

EPA would like to note that at Leviathan, Stream Sediment is defined as the active sediment in the upper two centimeters of the stream channel. Deeper or more stationary sediment is classified as floodplain soil. The discussion at our meeting, and the data in the TDSR should include both stream sediment and floodplain soil as they are defined at Leviathan.